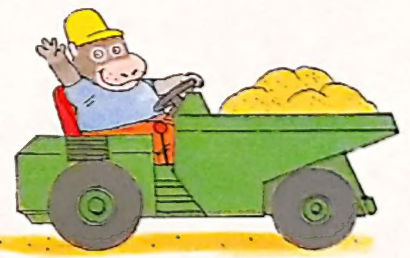
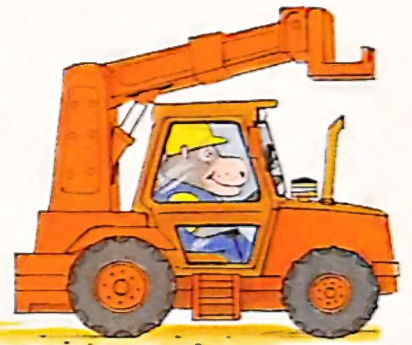
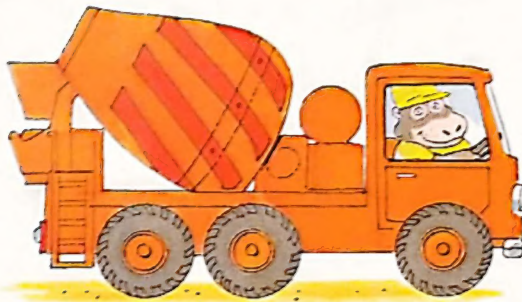
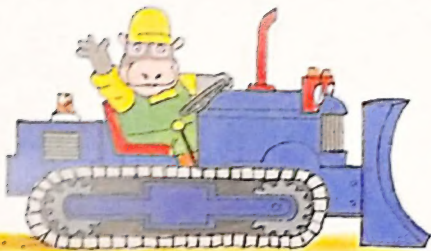
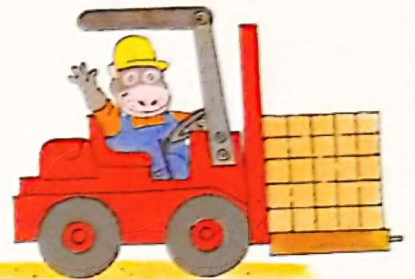


# HARRY BUILDS A HOUSE

Derek Radford











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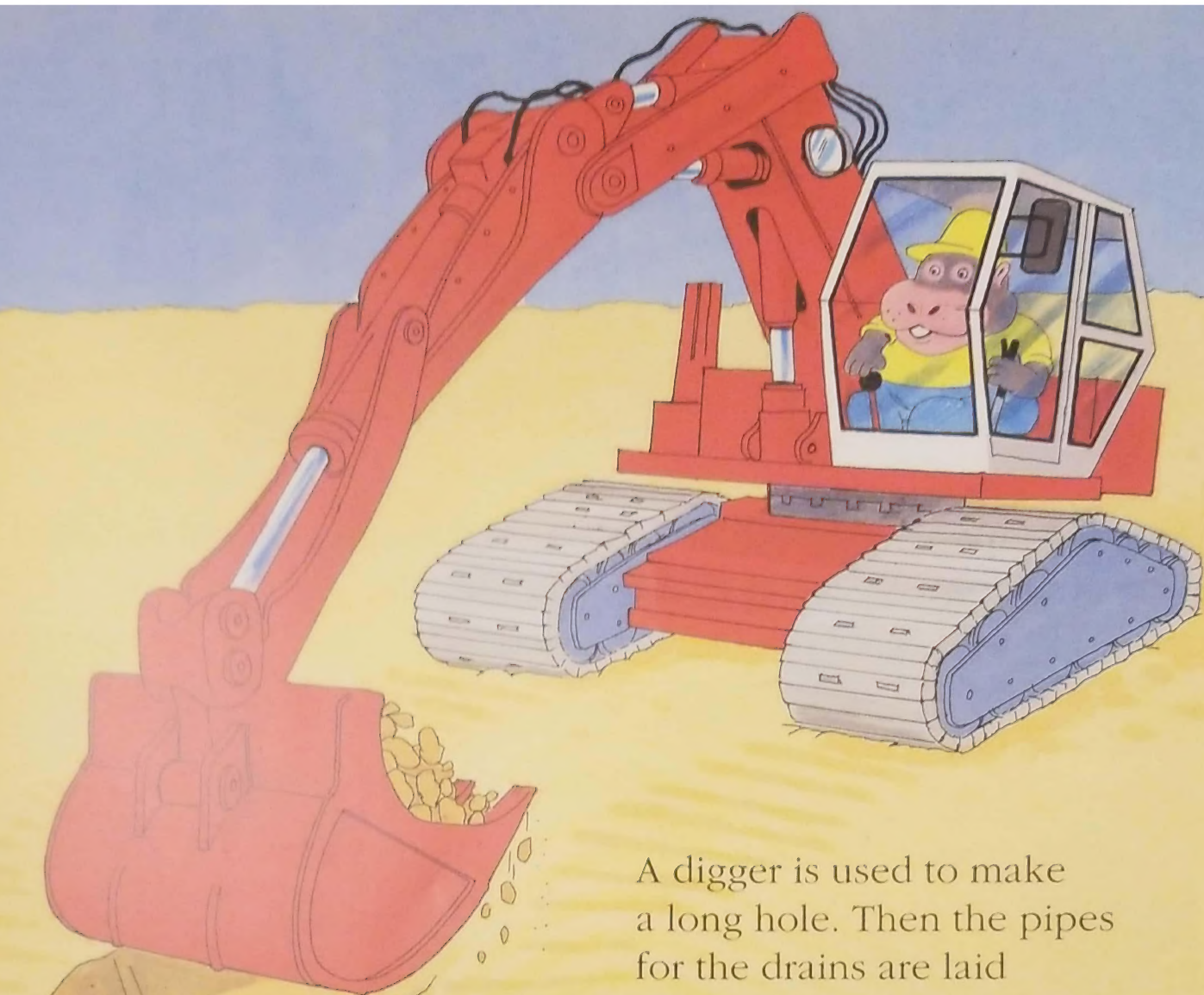


Harry Hippo is building a new house.  
First he maps out the site.

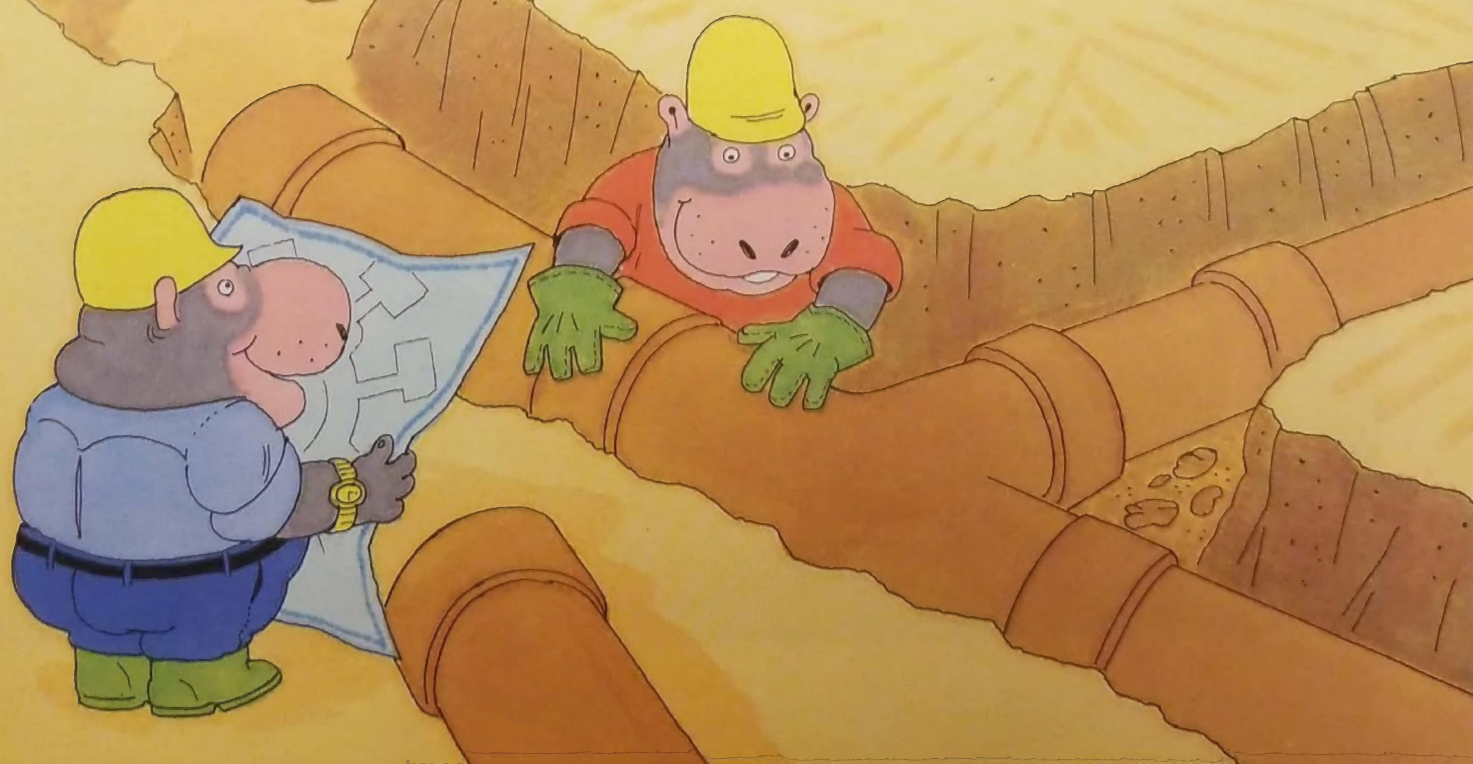
Then a bulldozer clears the land and makes sure it is level.



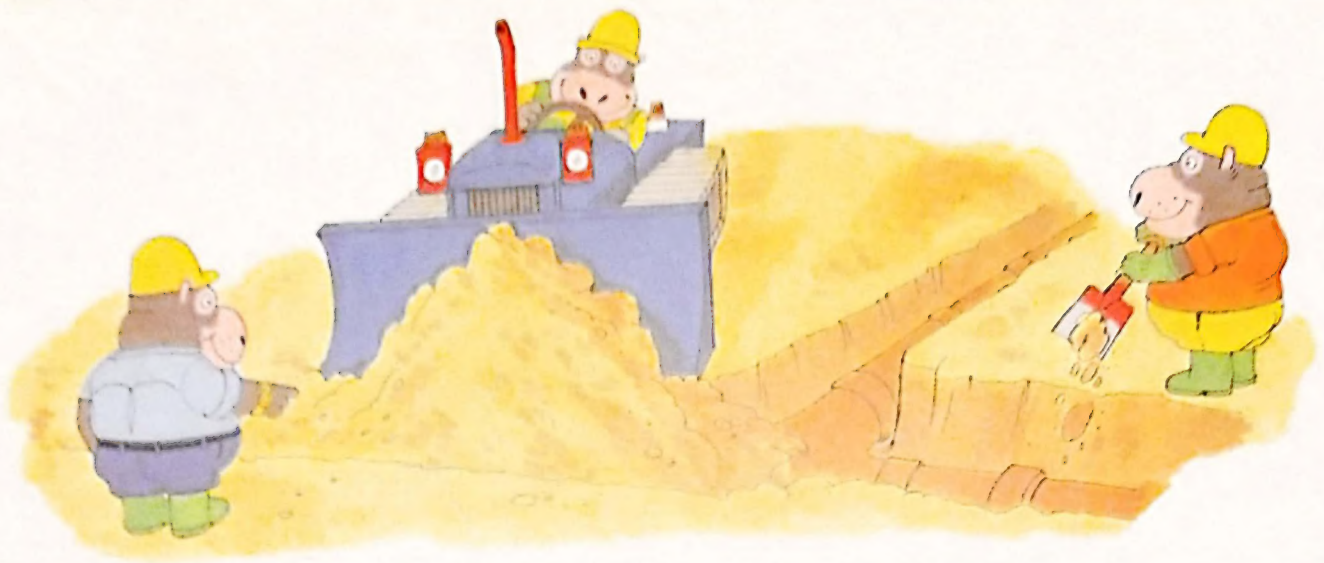




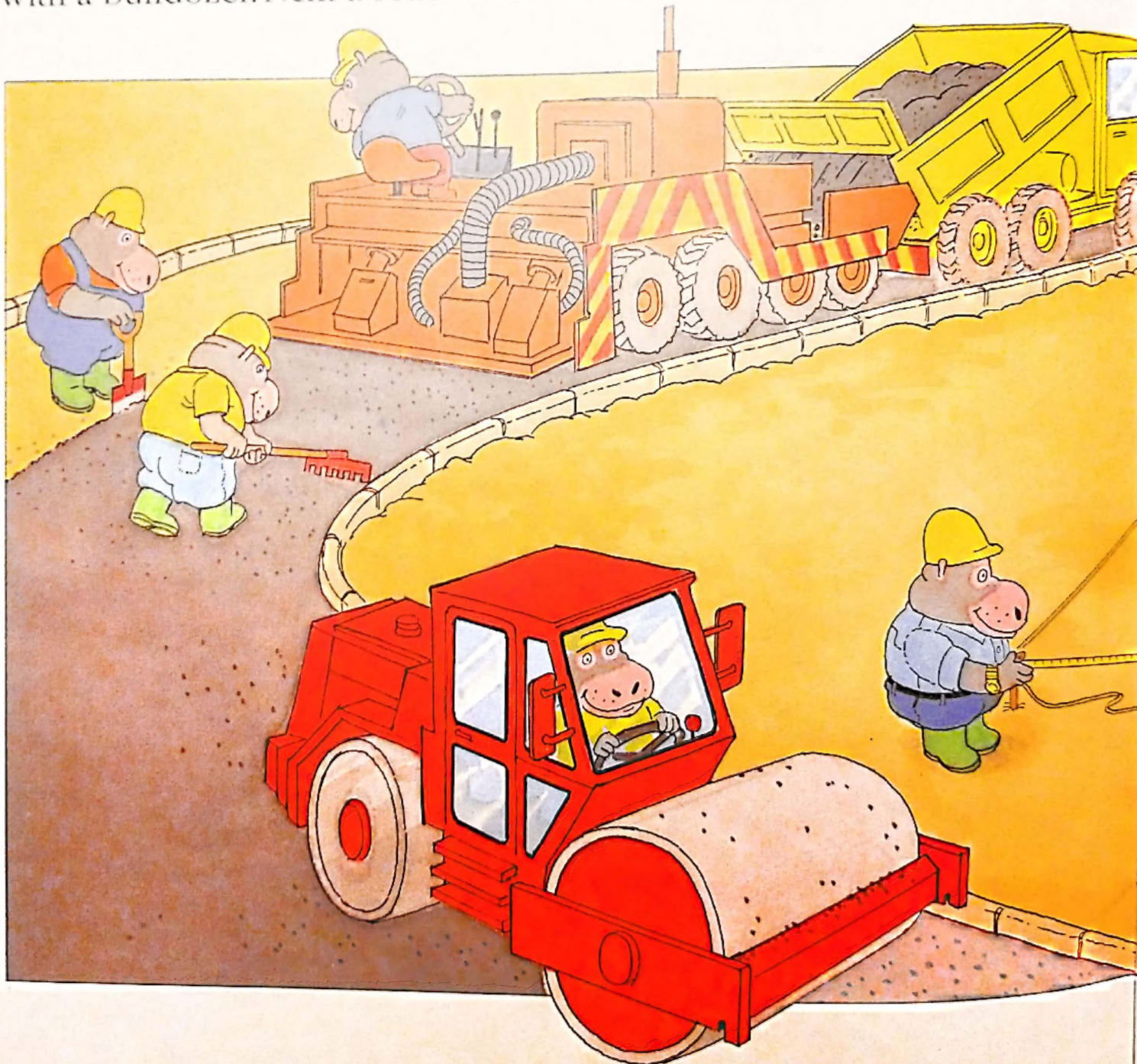
A digger is used to make a long hole. Then the pipes for the drains are laid in it and fitted together.



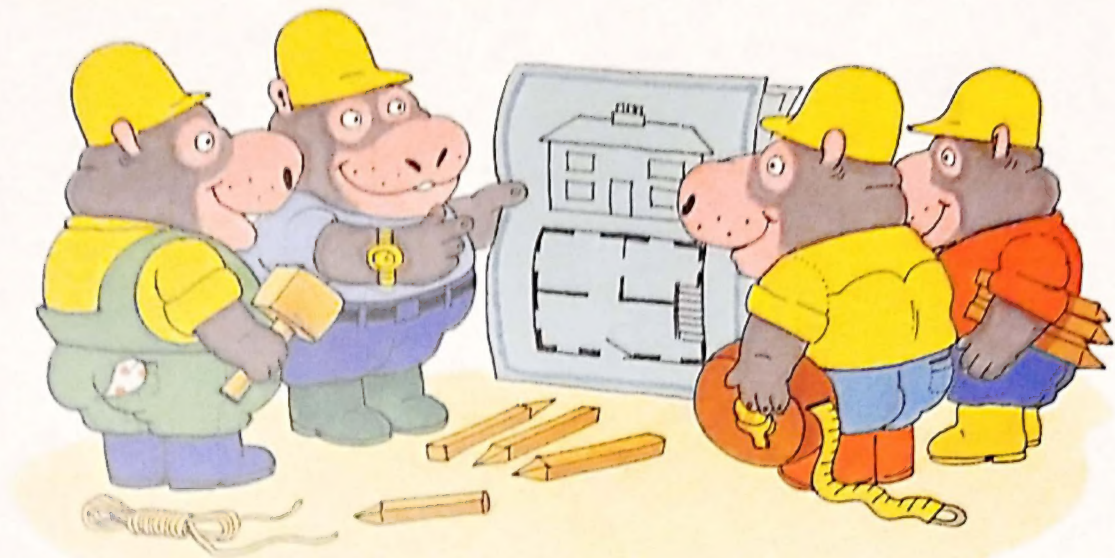




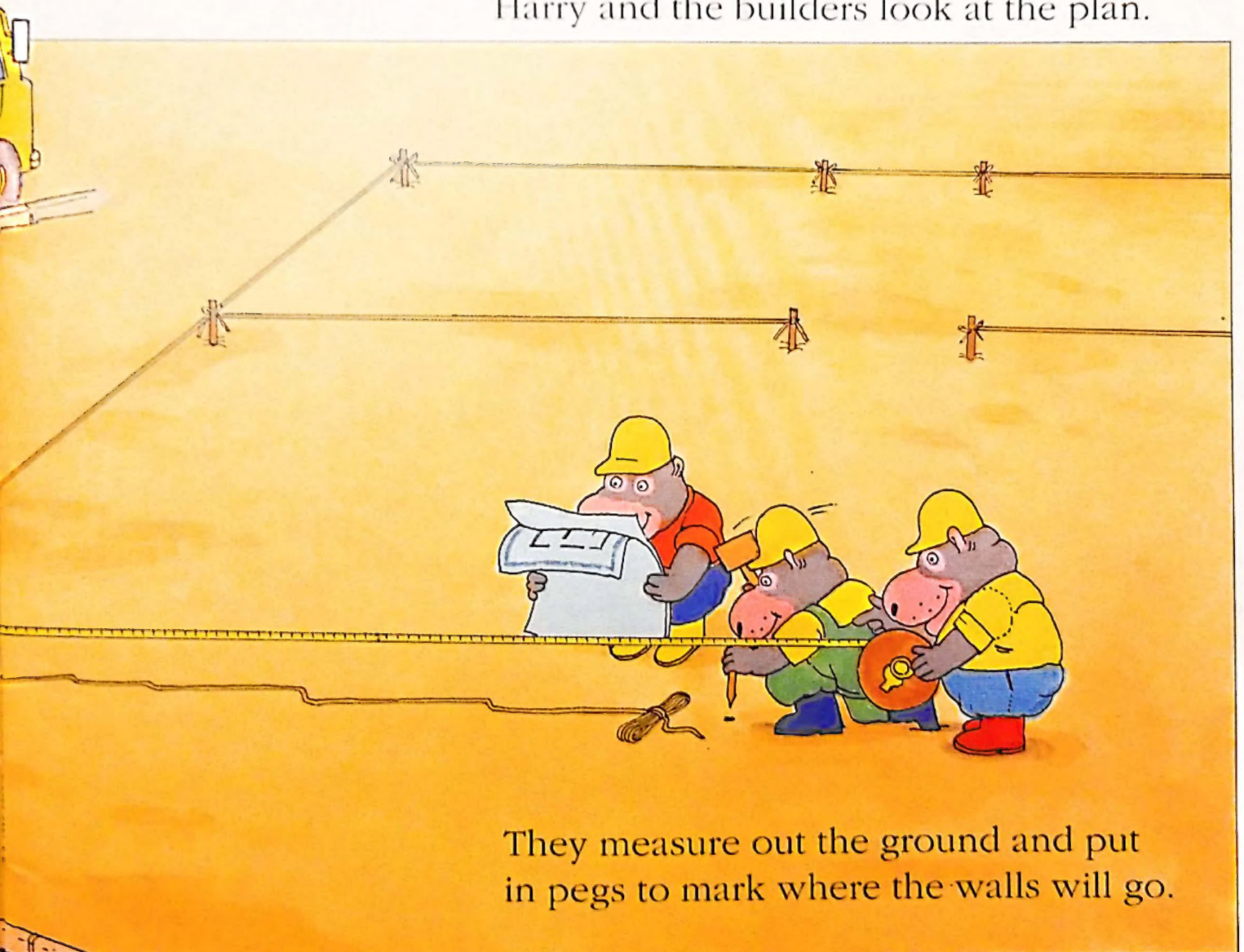
Once the pipes are laid the hole is covered over again and flattened with a bulldozer. Next a road is built to the site.







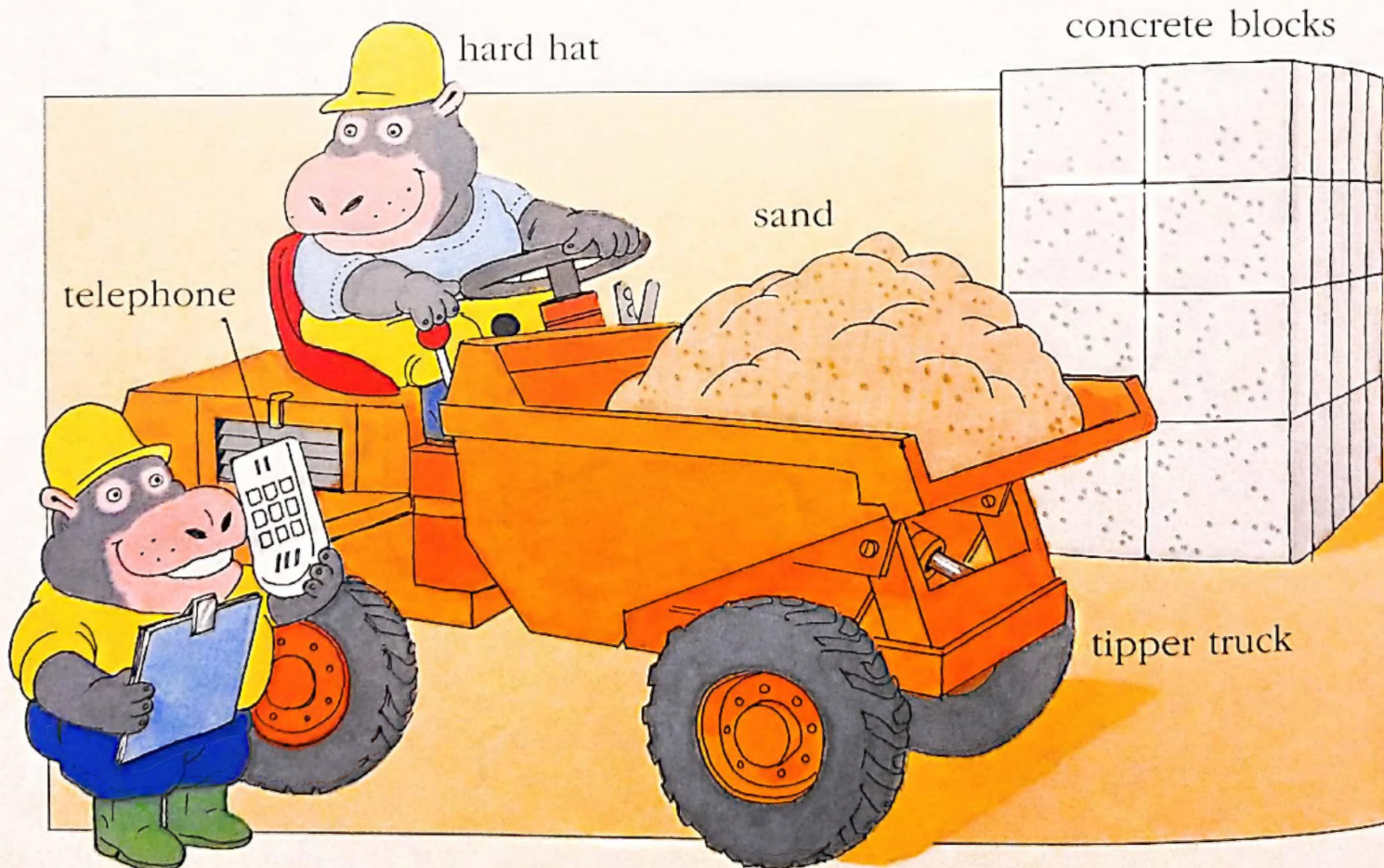
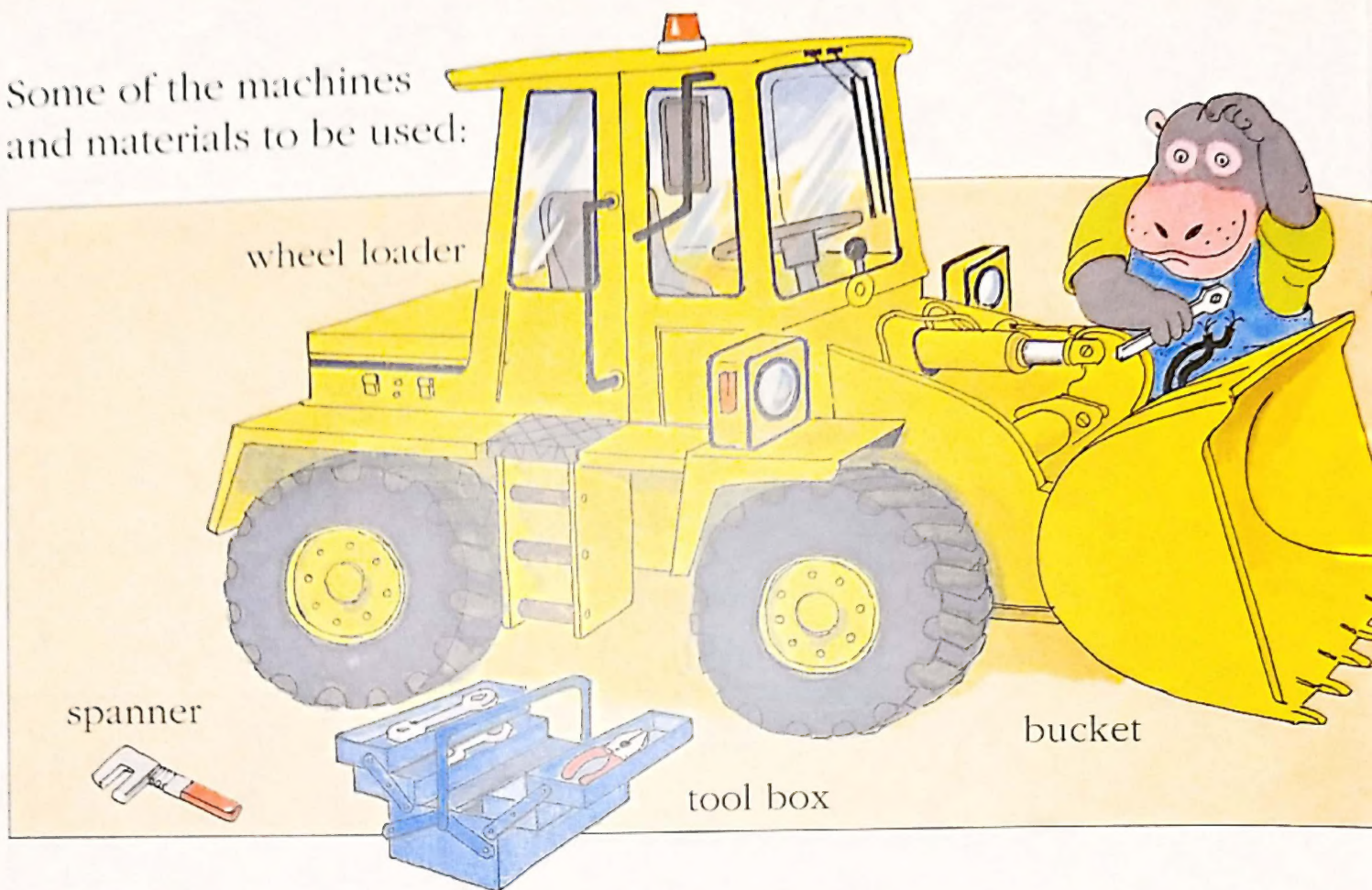
Now work on the house can begin.  
Harry and the builders look at the plan.



They measure out the ground and put  
in pegs to mark where the walls will go.



Some of the machines  
and materials to be used:





dump truck

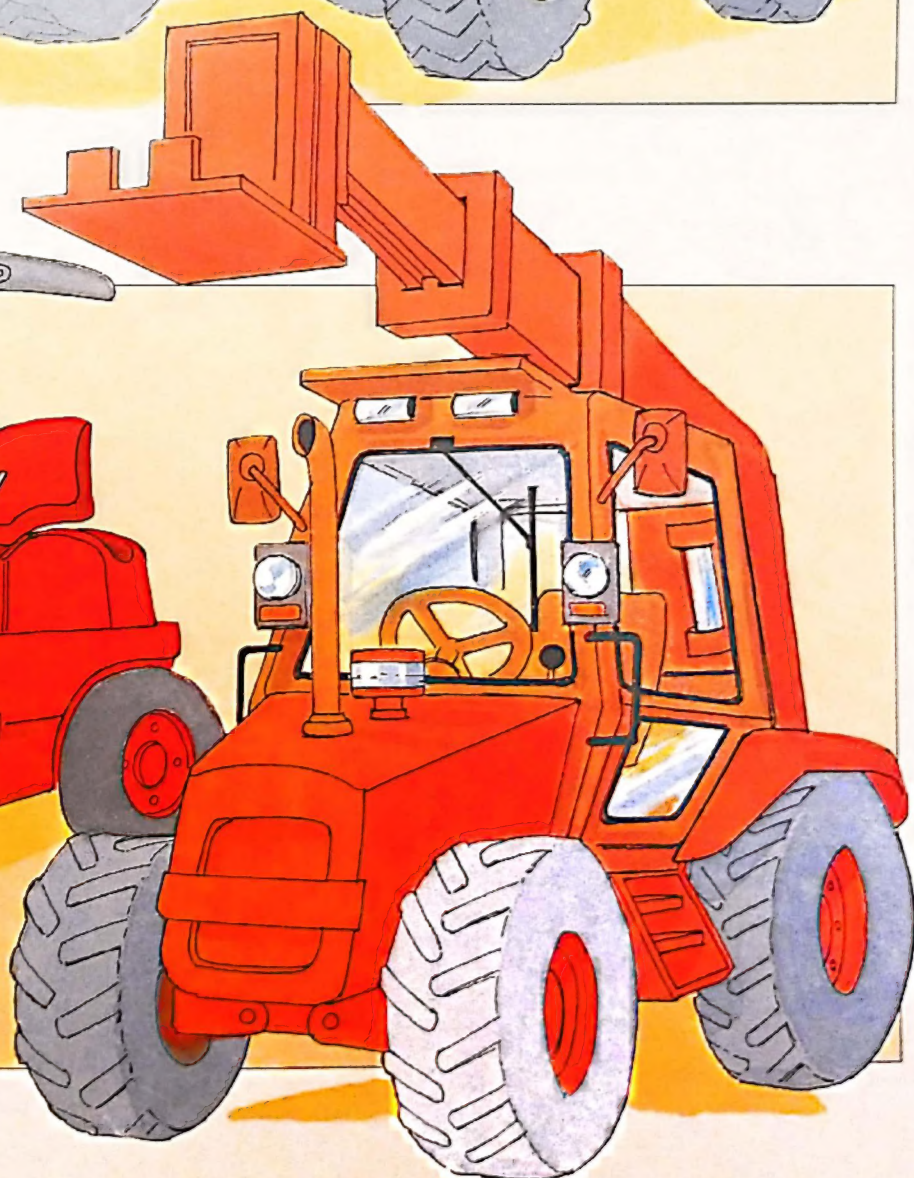


fork-lift  
truck

bricks



uni-loader





The first job is to lay the foundations, because the house must have something firm and solid to sit on.



Tipper trucks bring concrete from the mixer and tip it into the trench. Large covers are put over the concrete at night to keep it dry so it will set hard and firm.

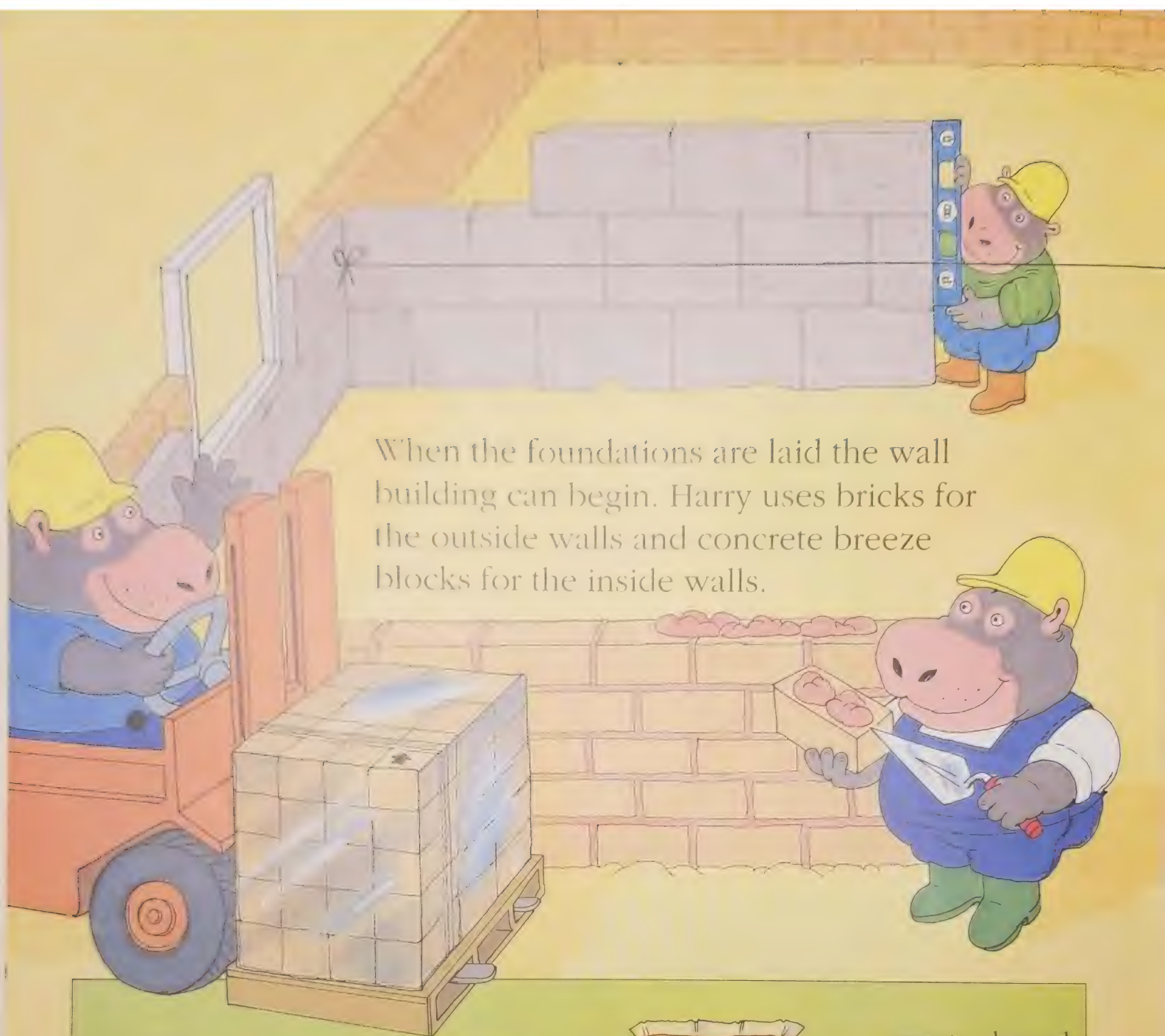




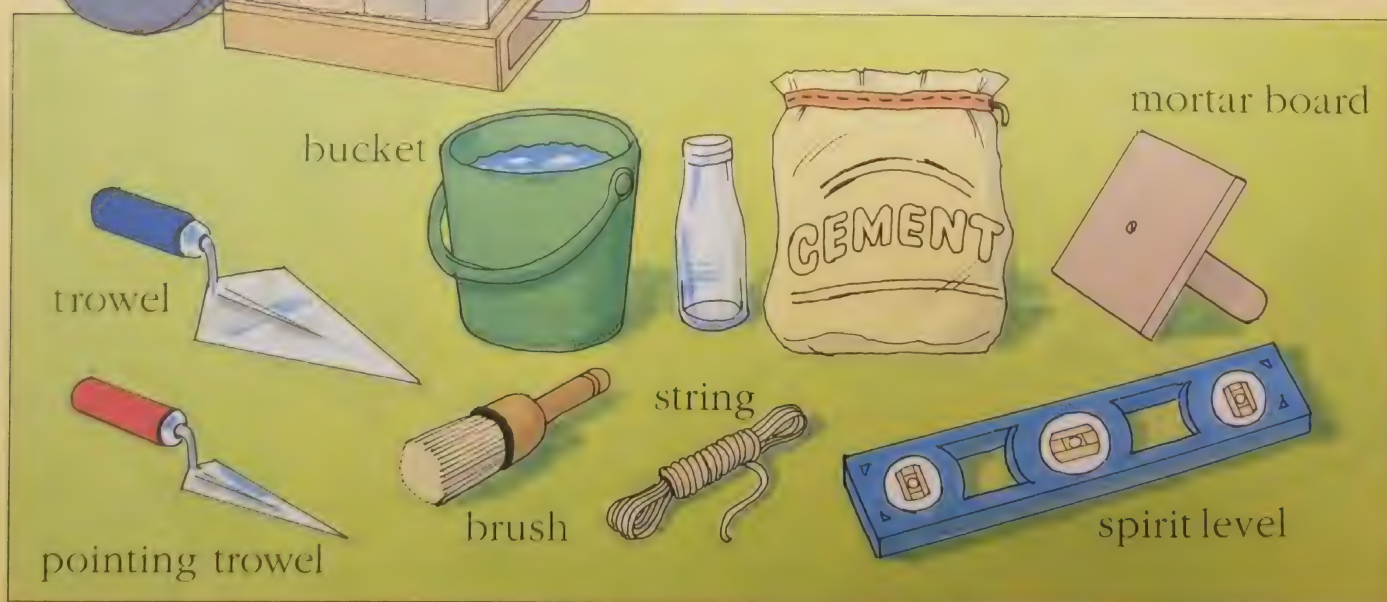


Wherever a wall will be  
built a trench is dug out.





When the foundations are laid the wall building can begin. Harry uses bricks for the outside walls and concrete breeze blocks for the inside walls.



These are some of the bricklayer's tools.

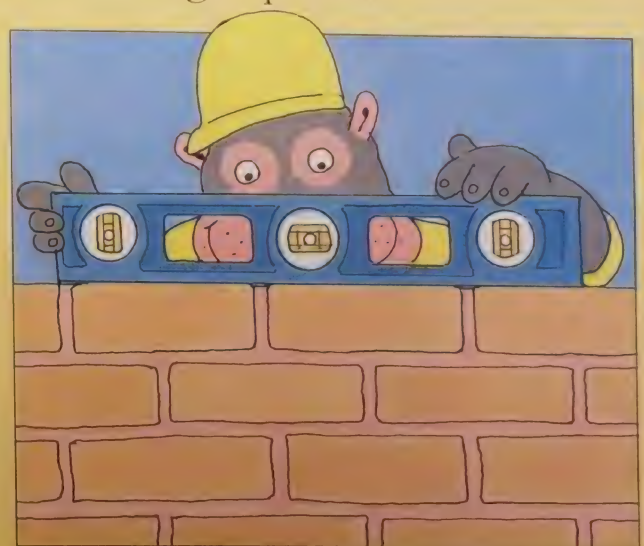




The bricklayers make sure that windows and door frames are in the right place.



The mortar is mixed; this will hold the bricks together.



New laid bricks are checked to make sure they are level.





Now the scaffolding arrives on a lorry

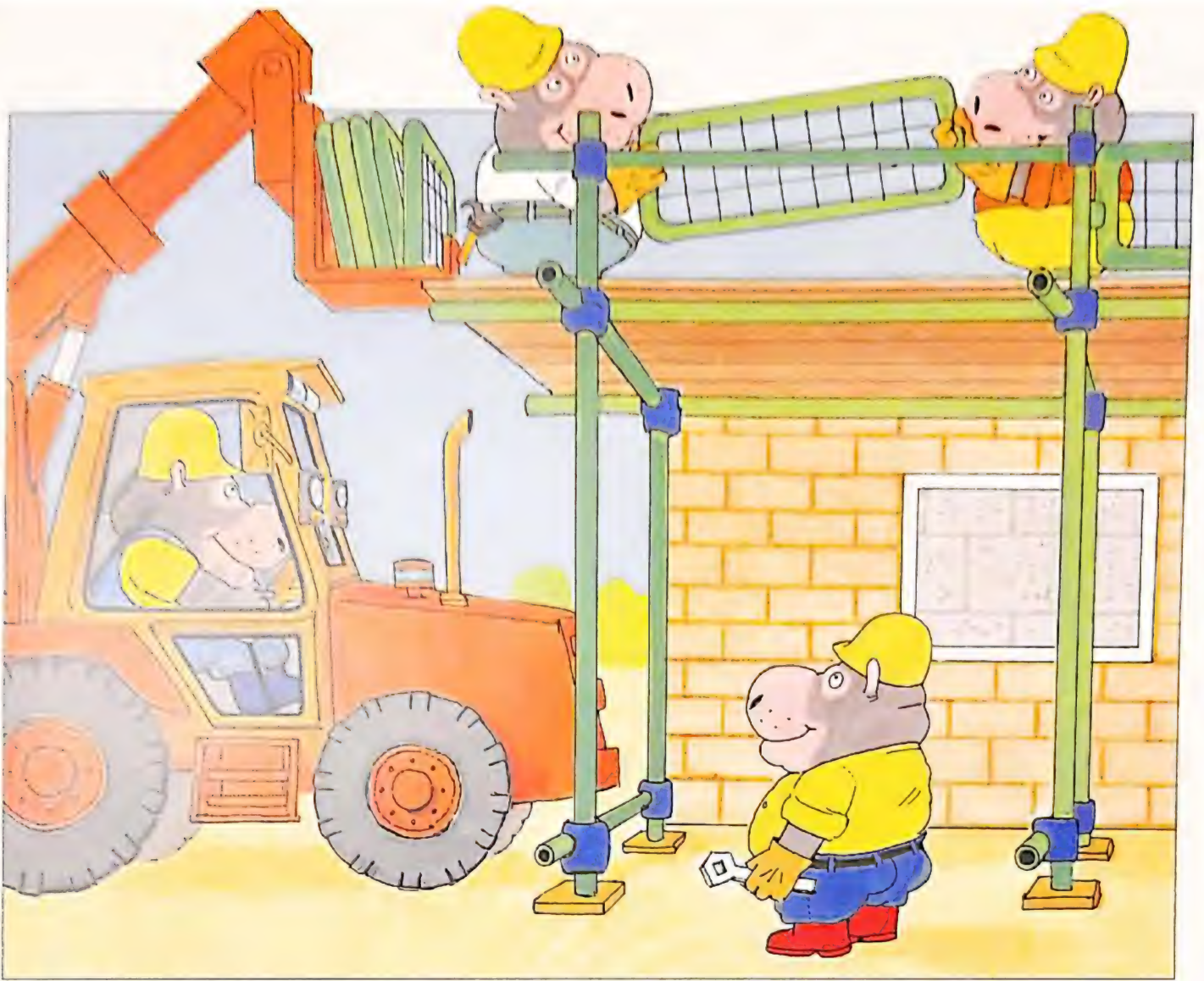


so Harry and his mates can start to work up high.

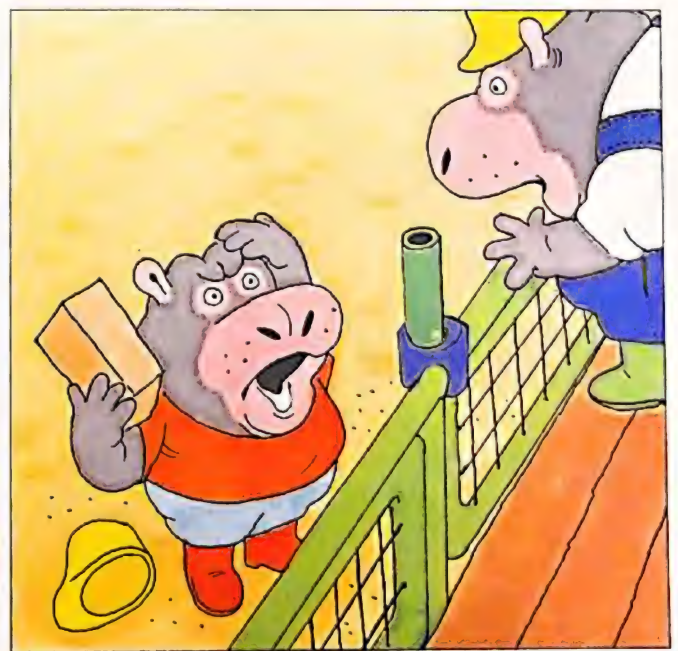


To make the scaffolding safe, the joining grips are made tight.





Once the scaffolding is up, safety screens are fixed around the sides.

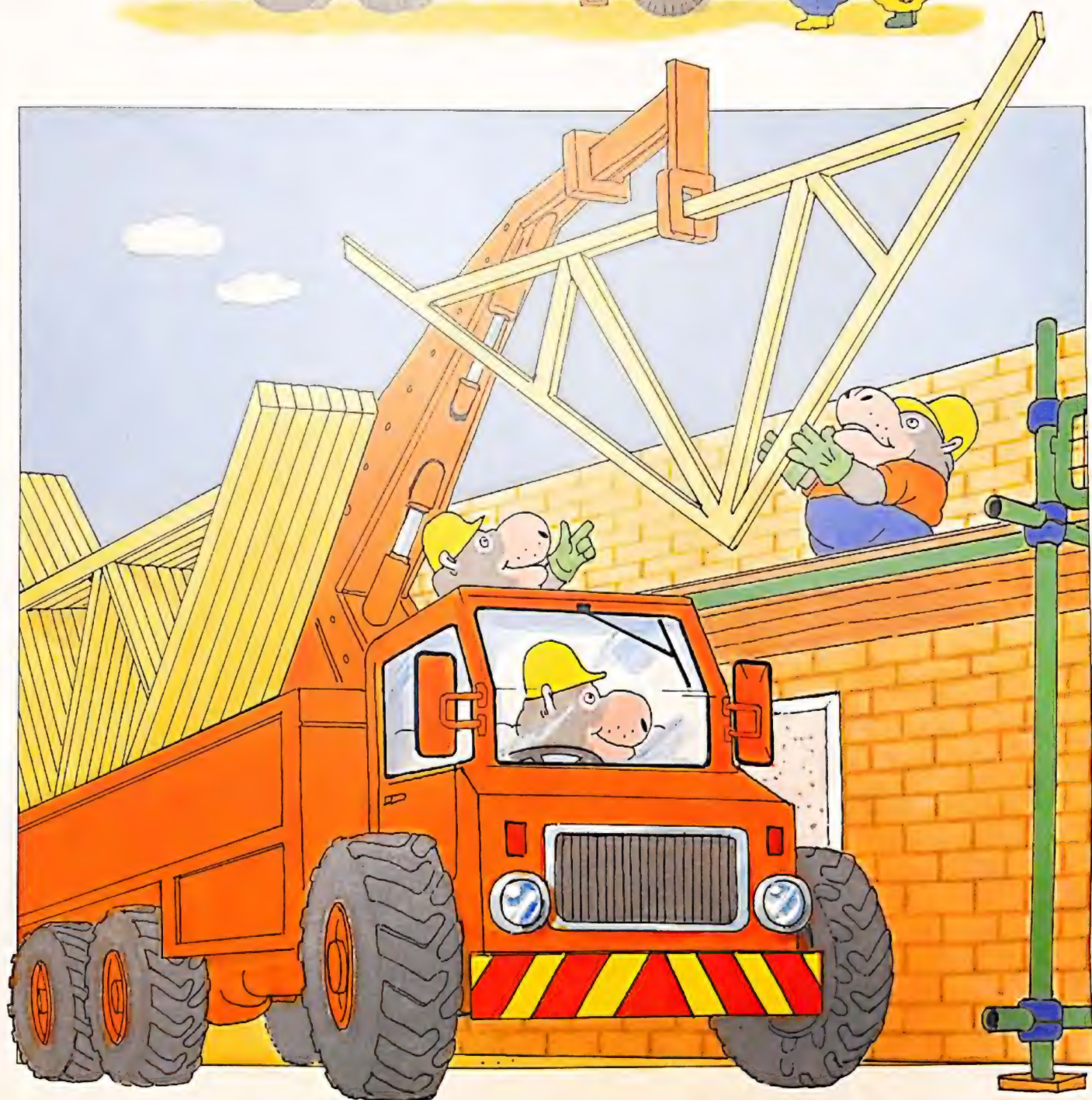


Accidents can happen... Harry and his mates must wear hard hats.



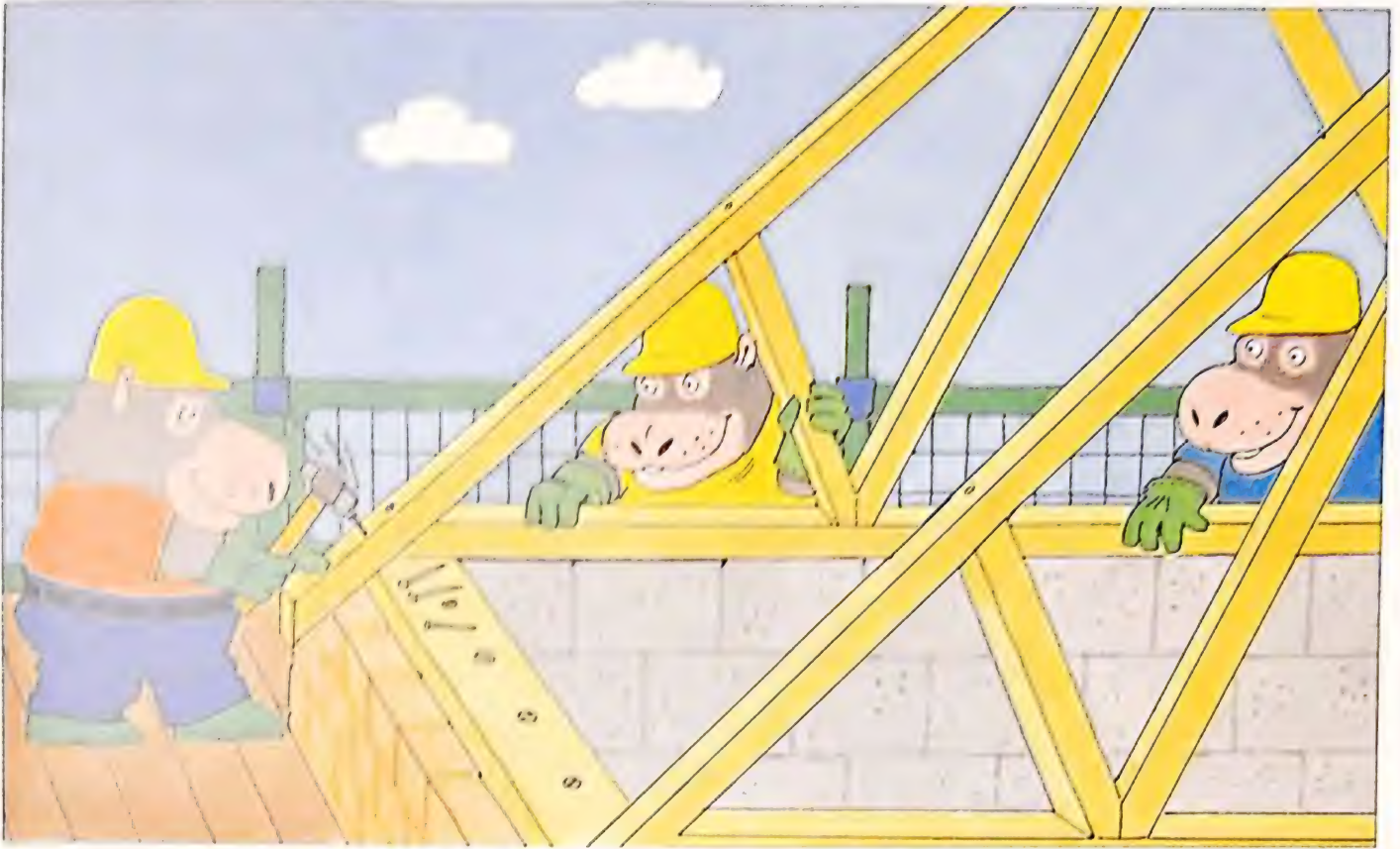


The roof beams are delivered by a special lorry...



which lifts them up easily onto the scaffolding.





Each roof beam is held steady and nailed in place. Insulation will be laid over the ceiling to keep the house warmer and save fuel.



Then roofing felt is laid over the roof beams.



When it rains Harry and his friends have to stop work.



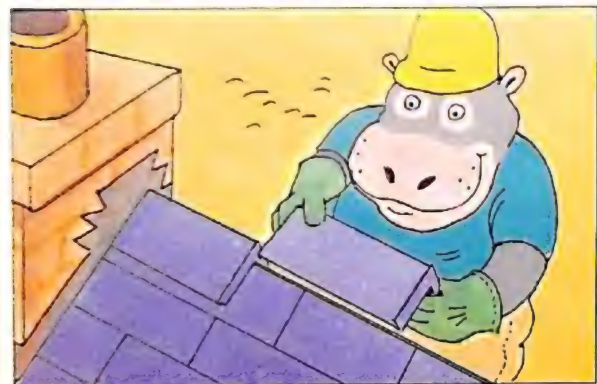
This is how tiles are laid:



Strips are fixed on the roof felt.



Tiles are nailed so they overlap.



Ridge tiles cover the joins.



Gutters take away rain that runs down the roof.







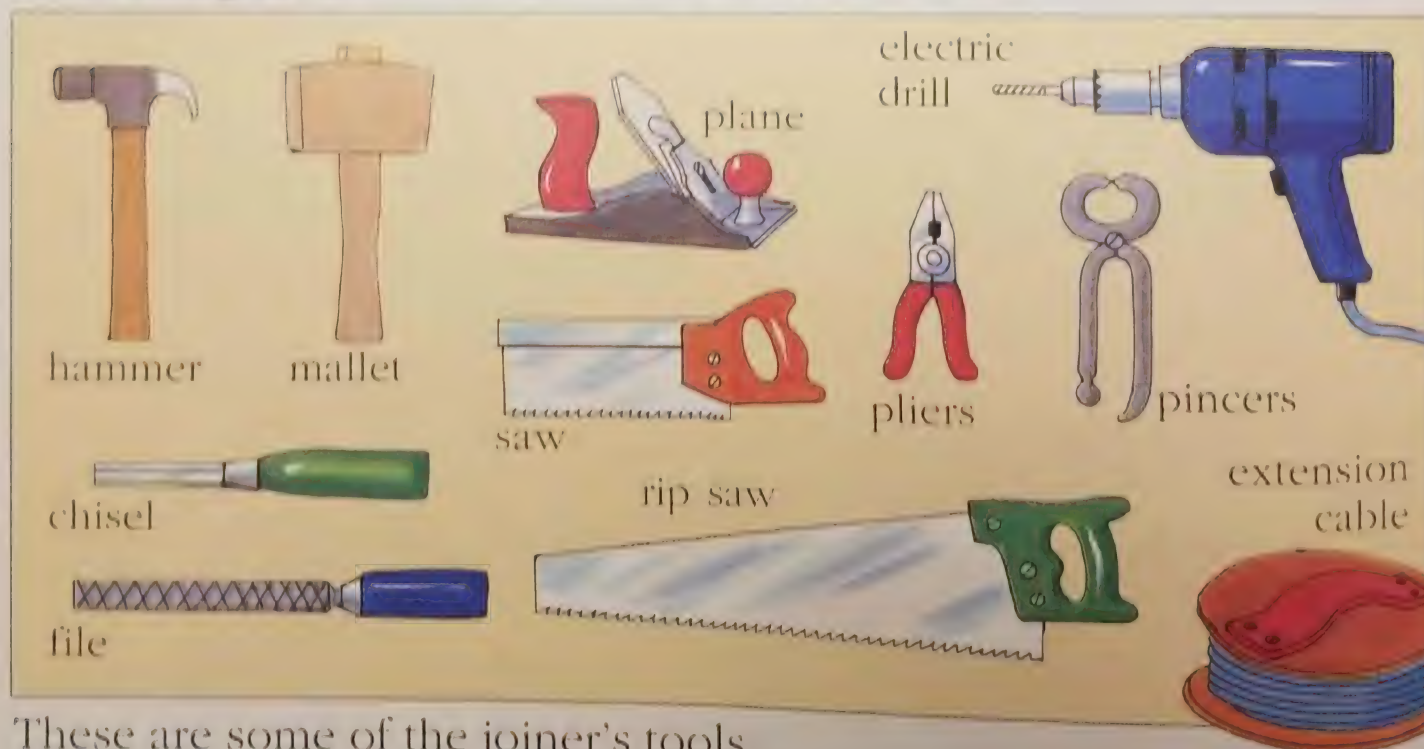
One roofer lays out  
the tiles and another  
nails them in place.



Now there is work for the joiners to do inside the house.

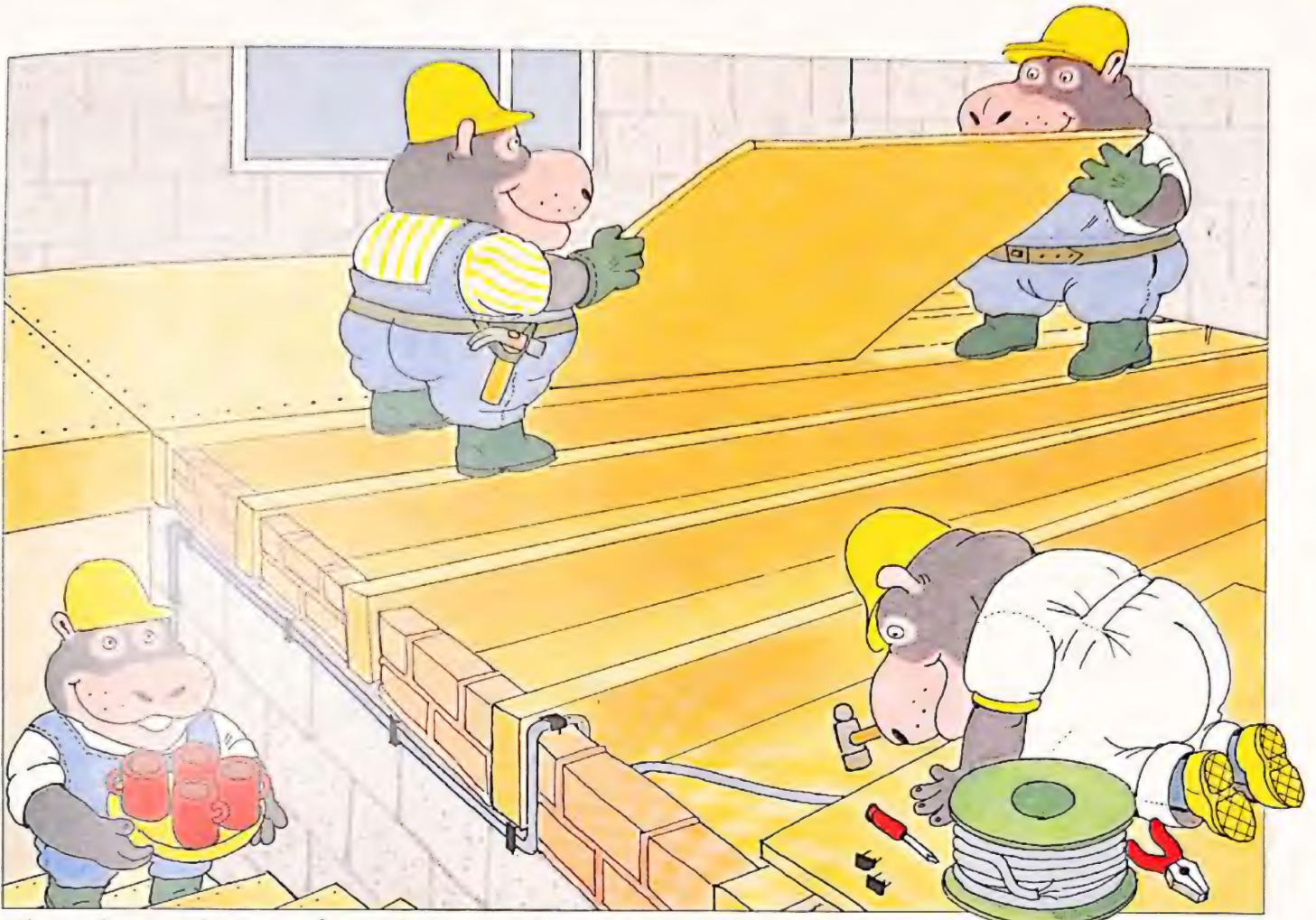


The ceiling joists and staircase are fixed into place.

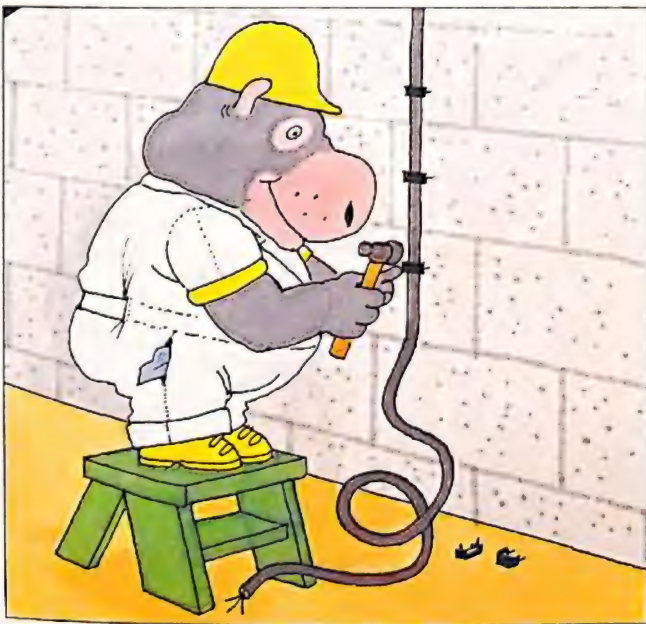


These are some of the joiner's tools.

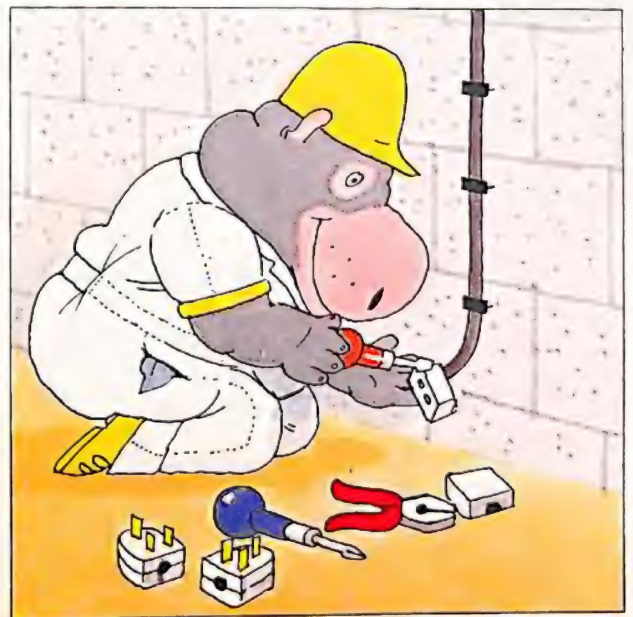




Floorboards are fitted onto the joists, but not before the electrician has put in the underfloor wiring.



He fixes the electric wires to the concrete block walls,



then screws plugs to the wires. Later, he fits the lights.

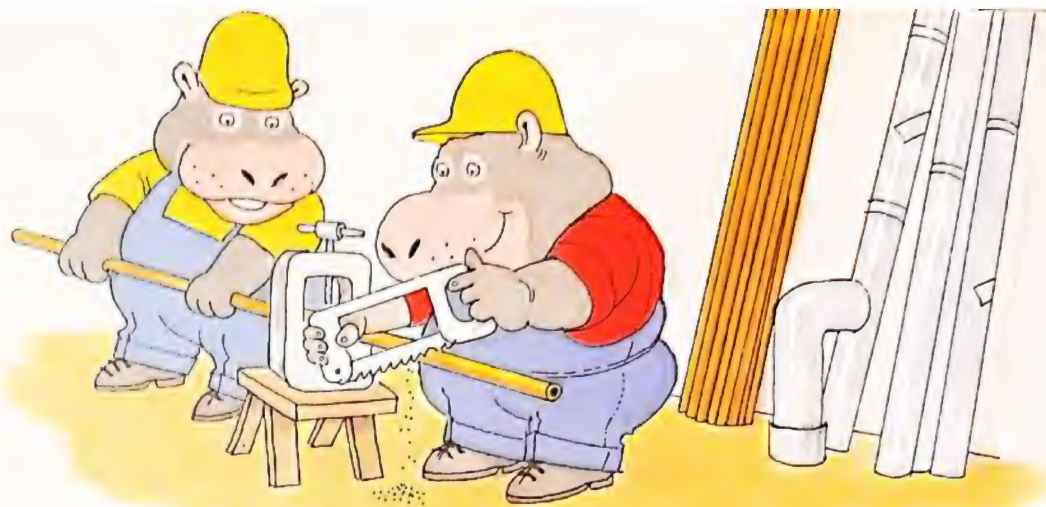


The plumber has many jobs to do. Here are some of the things he will fix into place.





Metal pipes are measured, cut to size, and bent. These carry hot and cold water to the bathroom and the kitchen.



There is a lot of drilling

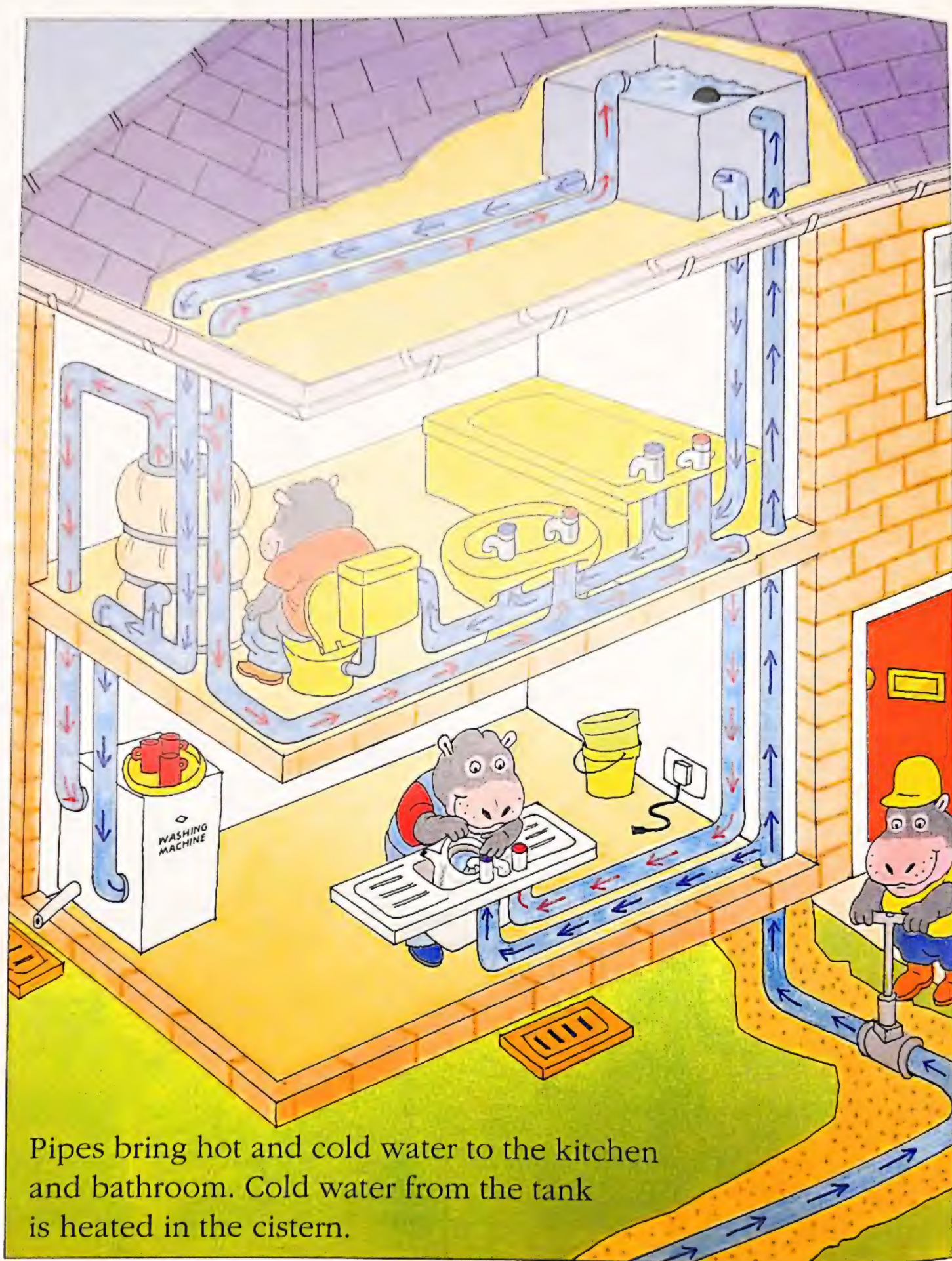


and fitting to do.



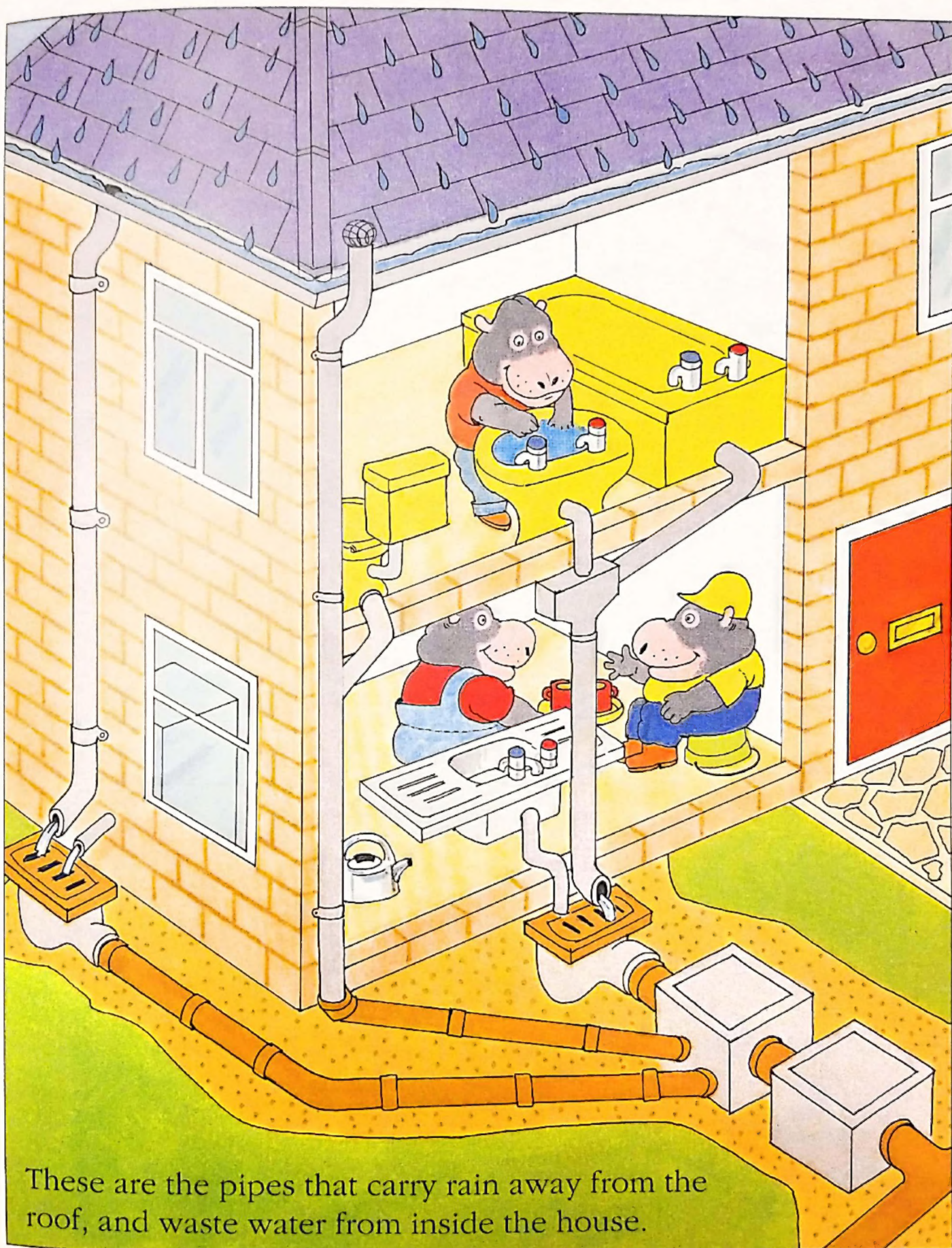
Sides are fitted to make the bath look finished and smart.





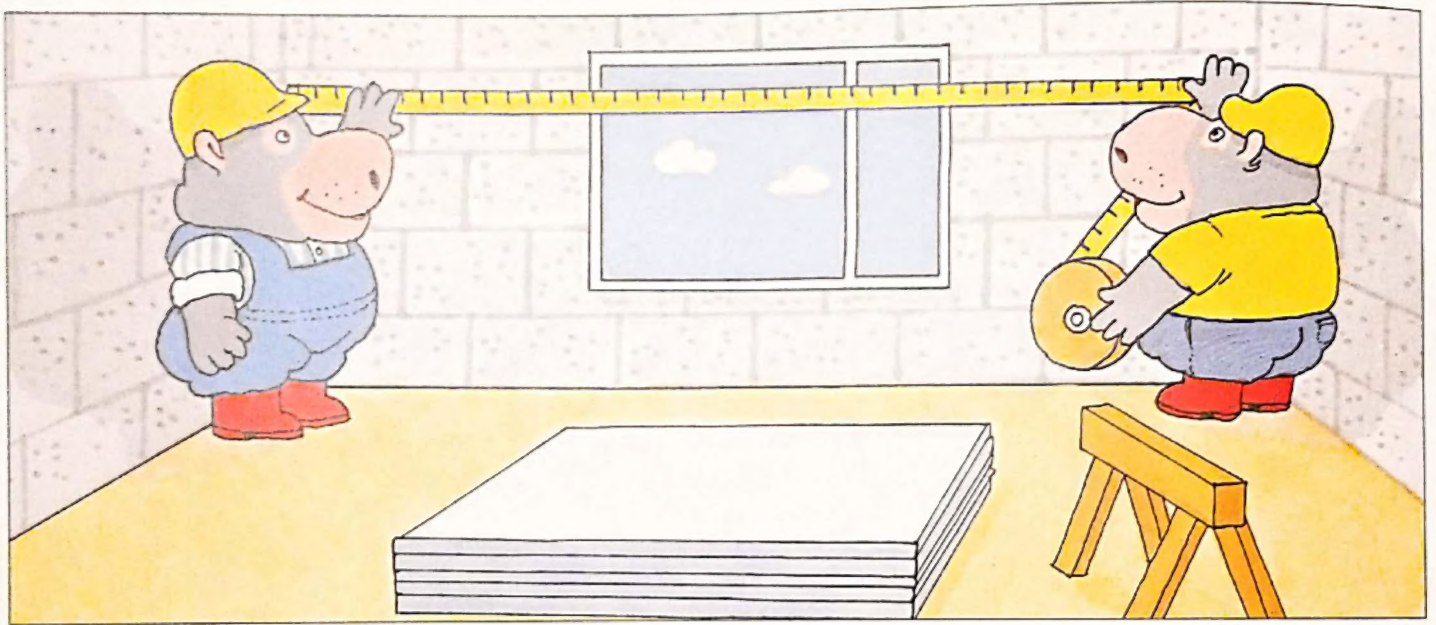
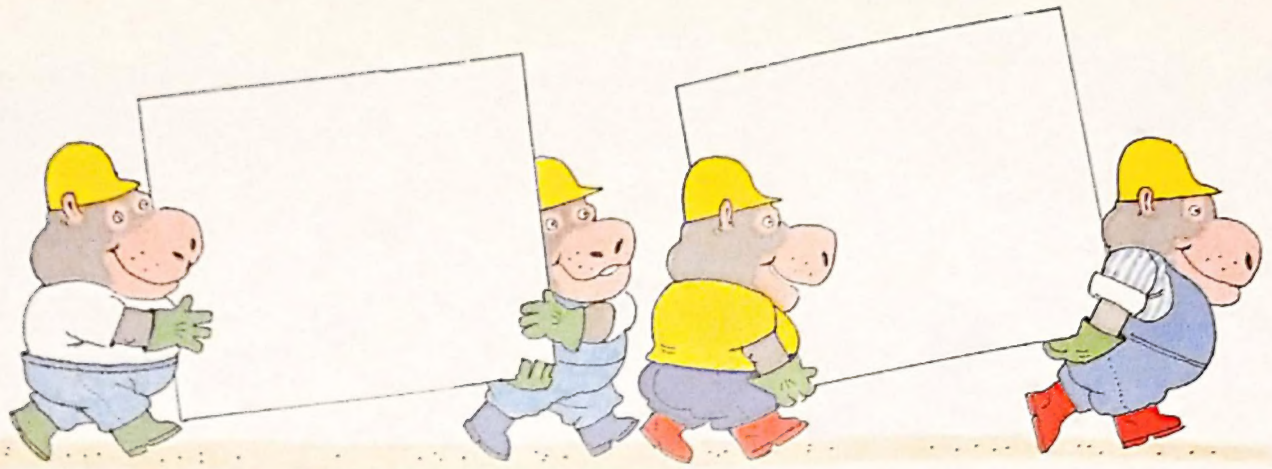
Pipes bring hot and cold water to the kitchen and bathroom. Cold water from the tank is heated in the cistern.



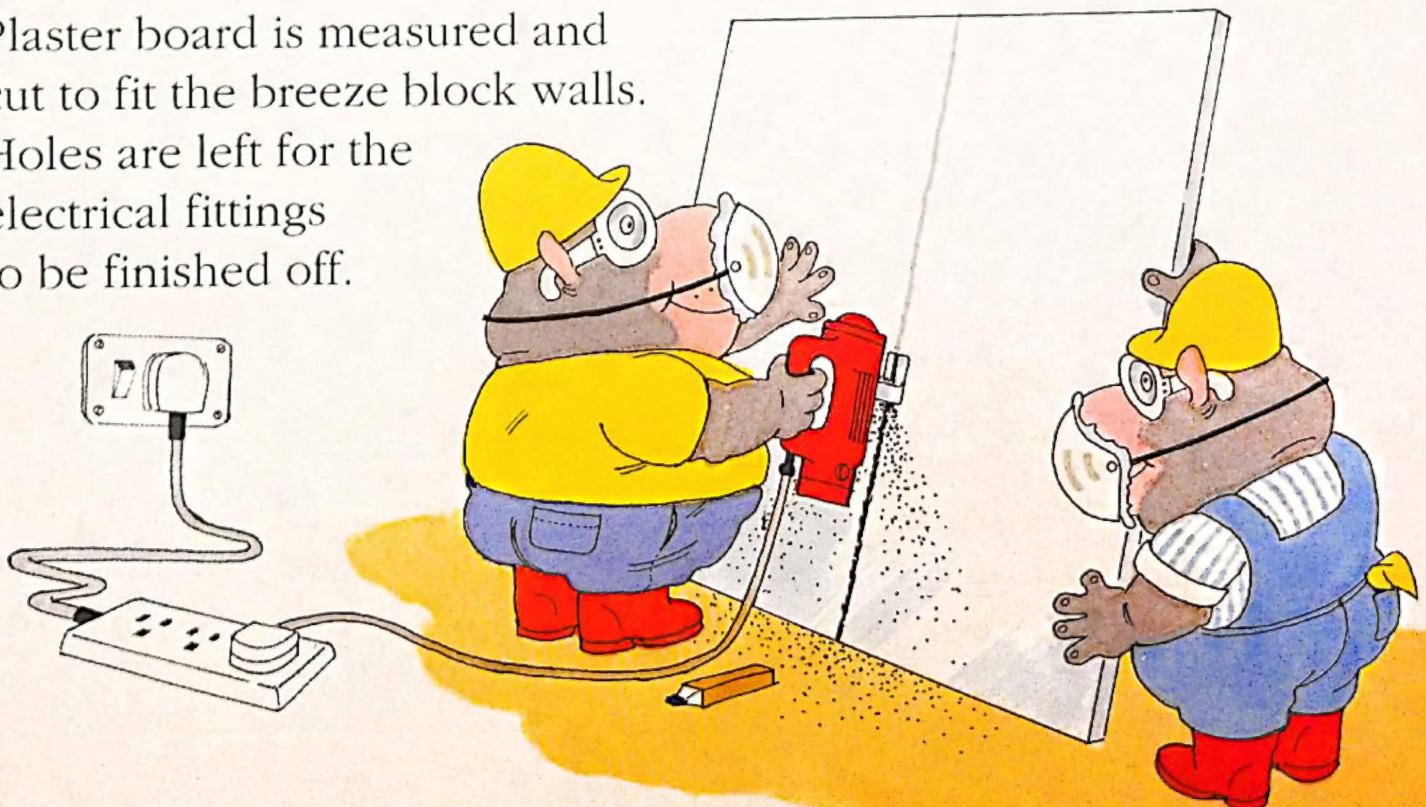


These are the pipes that carry rain away from the roof, and waste water from inside the house.

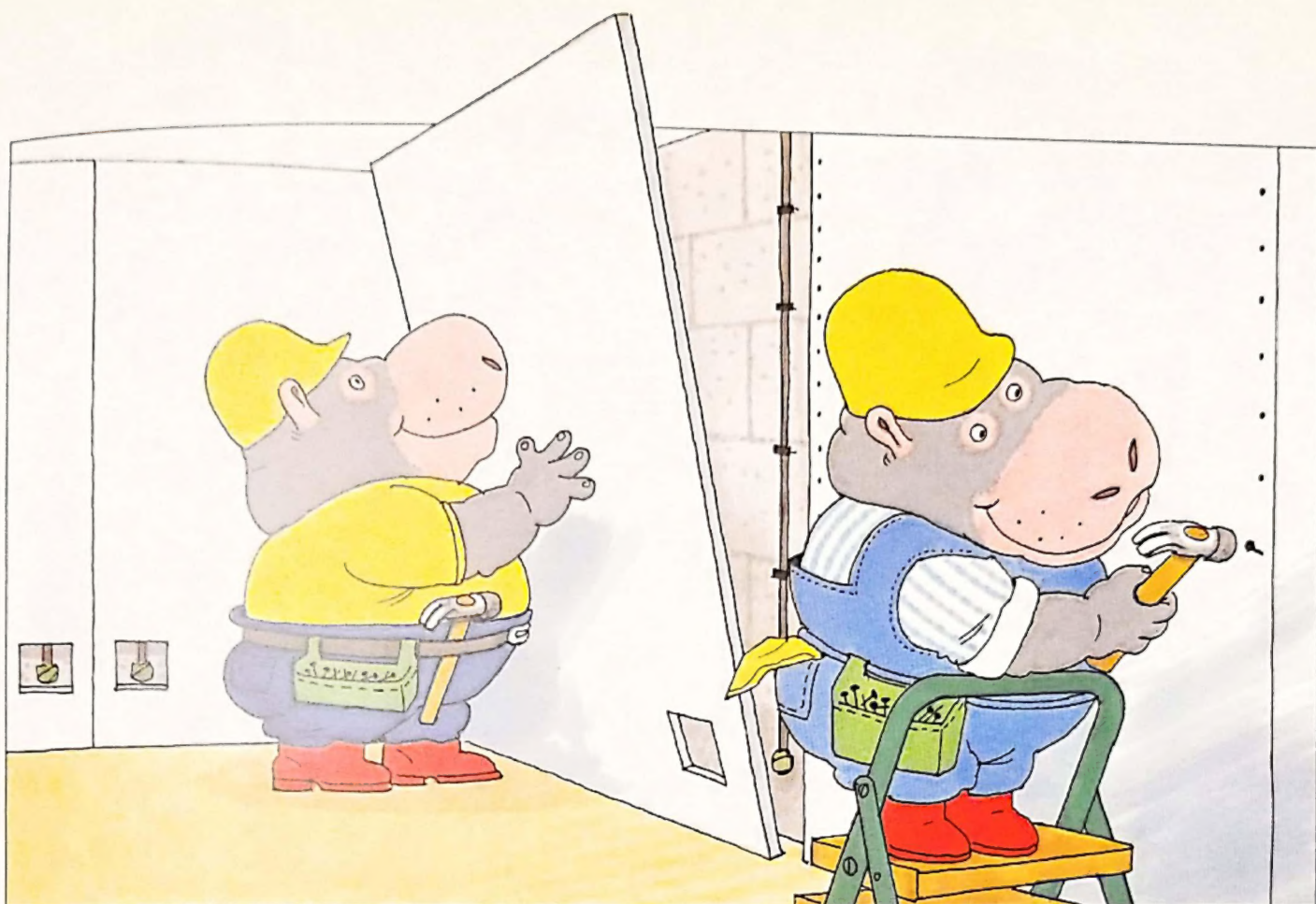




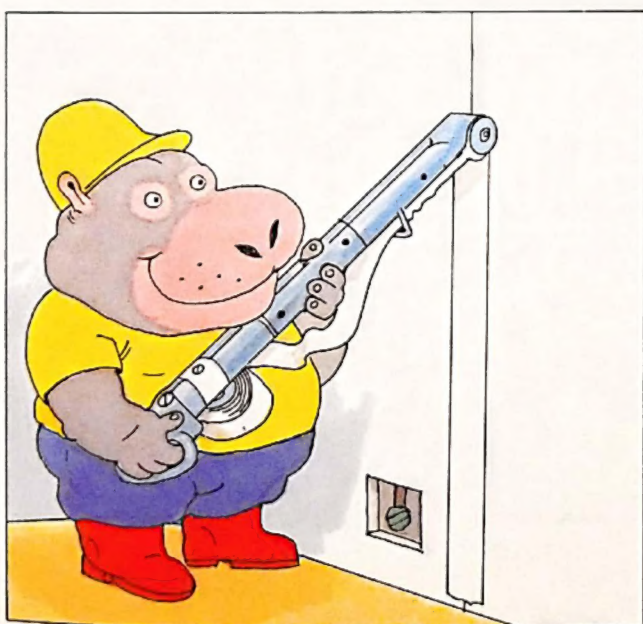
Now the house is nearly finished.  
Plaster board is measured and  
cut to fit the breeze block walls.  
Holes are left for the  
electrical fittings  
to be finished off.







The plaster board is fitted and nailed to the breeze block walls.



The joins between the plaster board are covered over to make the walls smooth.



Harry Hippo and his mates have finished the job. Now the house that Harry built can be sold.



